

AMENDMENT TO THE CLAIMS

1. (Currently amended) An ex-vessel core melt retention device preventing molten core concrete interaction, which is installed for alleviating risks due to unexpected accidents over accidents considered as a design criteria of a nuclear plant, the device comprising:

horizontal jacket pipes located on a shell boundary of a cavity floor, the horizontal jacket pipes having water inlets A formed at their lower half in an appropriate density, the water inlets including holes having diameters of approximately 2-5 cm and the water inlets allowing water to enter the bottom of the pipes;

vertical pipes connected at both ends of the horizontal jacket pipes in the form of a dovetail to communicate with each other, the vertical pipes including open ends to permit water vapor to escape therethrough; and

a water supply part located at the lower portion half of the horizontal jacket pipes for allowing water to enter from the whole area of the bottom holes at the lower half of the horizontal jacket pipes.

2. (Withdrawn)

3. (Withdrawn)